

IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Henri Rainer NORDLUND et al.

Conf.: *Unassigned as yet*

Application No.: 10/579,393

Group: *Unassigned as yet*

Filed: May 15, 2006

Examiner: *Unassigned as yet*

For: AVIDIN MUTANTS

**INFORMATION DISCLOSURE STATEMENT**  
**(SUBMISSION CONCURRENT WITH THE**  
**FILING OF A NEW PATENT APPLICATION)**

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

August 15, 2006

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, and in fulfillment of the duty of disclosure under 37 C.F.R. § 1.56, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION**

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

**II. COPIES**

- ☐ Copies of the U.S. patents or publications are not submitted since the USPTO has waived their submission for applications filed after June 30, 2003.
- ☐ Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should have been forwarded from the International Search Authority pursuant to the trilateral agreement between the USPTO, EPO and JPO, or they are U.S. patents or U.S. published applications. If copies are needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE  
 (check at least one box)

a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached non U.S. patents, non U.S. patent application publications, foreign publications, or other information in the English language do not require a statement of relevancy.

b. ☐ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

c. ☒ **FOREIGN SEARCH REPORT OR ACTION**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.

FEES

This Information Disclosure Statement is being filed within three months of the filing date of the present application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned.

Respectfully submitted,

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BC/sj

Enclosures: ☒ Form PTO-1449(s)  
☐ Documents  
☒ Foreign Search Report  
☐ Other: \_\_\_\_\_

# **INFORMATION DISCLOSURE CITATION IN AN APPLICATION**

(Use several sheets if necessary)

Attorney Docket No.:  
**3502-1105**

Application No.:  
**10/579,393**

Applicant:  
**Henri Rainer NORDLUND et al.**

Filing Date:  
**May 15, 2006**

Group Art Unit:  
**Unassigned as yet**

## **U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing date (if appropriate)
	6,492,492	12/2002	SLAYTON			

## **FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

## **OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

		"Thermodynamic and structural consequences of flexible loop deletion by circular permutation in the streptavidin-biotin system," Chuv. et al., Protein Science, Vol. 7, No. 4, April 1988, pp. 848-859, XP002316238.
		"Rotational design of an active avidin monomer", Laitinen et al., Journal of Biological Chemistry, Vol. 278, No. 6, Feb. 7, 2003, pp. 4010-4014, XP002316239.
		"Enhancing the thermal stability of avidin," Nordlund et al., Journal of Biological Chemistry, Vol. 278, No. 4, January 24, 2003, pp. 2479-2483, XP002973647.
		"Chicken avidin-related proteins show altered biotin-binding and physico-chemical properties as compared with avidin," Laitinen et al., Biochemical Journal, Vol. 363, 2002, pp. 609-617, XP002973648.
		"Construction of a dual chain pseudotetrameric chicken avidin by combining two circularly permuted Avidins," Nordlund et al., Journal of Biological Chemistry, Vol. 279, No. 35, August 27, 2004, pp. 36715-36719, XP002316240.

EXAMINER:

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

\* Abstract provided for the Examiner's convenience